



Atty. Dkt. No. 039153-0451 (G1156)

GP1756  
#3  
BT  
6-10-02

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Lukanc et al.

Title: METHOD OF ENHANCING CLEAR  
FIELD PHASE SHIFT MASKS  
WITH BORDER AROUND EDGES  
OF PHASE REGIONS

Appl. No.: 10/016,441

Filing Date: 12/11/2001

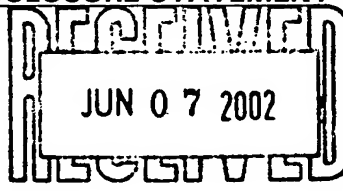
Examiner: Unknown

Art Unit: 1756

<p><b>CERTIFICATE OF MAILING</b></p> <p>I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as First Class Mail in an envelope addressed to: Commissioner for Patents, Washington, D.C. 20231, on the date below.</p> <p><u>Sandra A. Murphy</u> (Printed Name)</p> <p><u>Sandra A. Murphy</u> (Signature)</p> <p><u>May 24, 2002</u> (Date of Deposit)</p>
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INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents  
Washington, D.C. 20231



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JUN 06 2002

TC 1700

Sir:

Pursuant to 37 C.F.R. §§ 1.97-98 and in accordance with the duty of disclosure under 37 C.F.R. §1.56, Applicant submits herewith the references listed on the attached Form PTO/SB/08 to the Examiner such that they may be considered and made of record in the above-identified application. A copy of each reference is enclosed.

Respectfully submitted,

Date May 24, 2002

By

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U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Substitute for form 1449B/PTO

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Date Submitted: May 24, 2002

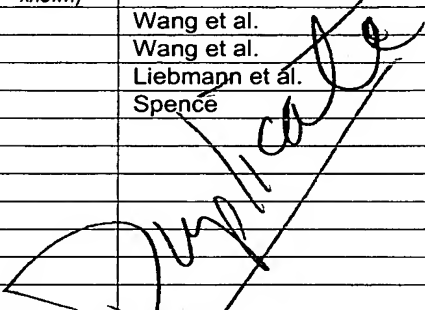
(use as many sheets as necessary)

Sheet 1 of 1

**Complete if Known**

Application Number	10/016,441
Filing Date	12/11/2001
First Named Inventor	Todd P. Lukanc
Group Art Unit	1756
Examiner Name	Unknown
Attorney Docket Number	039153-0451 (G1156)

## U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			
	A1	6,228,539 B1		Wang et al.	05-08-2001	 <div style="position: absolute; top: 10px; right: 10px; transform: rotate(-15deg); font-weight: bold;">RECEIVED</div> <div style="position: absolute; top: 40px; right: 10px; transform: rotate(-15deg); font-weight: bold;">JUN 06 2002</div> <div style="position: absolute; top: 70px; right: 10px; transform: rotate(-15deg); font-weight: bold;">TC 1700</div>
	A2	5,858,580		Wang et al.	01-12-1999	
	A3	5,807,649		Liebmann et al.	09-15-1998	
	A4	5,573,890		Spence	11-12-1996	

## FOREIGN PATENT DOCUMENTS

[illegible]

## OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>6</sup>
	A5	Levenson et al., "Improving Resolution in Photolithography with a Phase-Shifting Mask," IEEE Transactions on Electron Devices, Vol. ED-29, No. 12, December 1982, pp. 1828-1836.	
	A6	Lin, B.J., "Phase-Shifting Masks Gain an Edge," Circuits & Devices, March 1993, pp. 28-35.	

Examiner Signature		Date Considered	
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup>See attached Kinds of U.S. Patent Documents. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.

Standard ST. 16 for Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

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